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DATE MAILED: 03/10/2005

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,344		07/18/2003	Ebo H. Croffie	02-6088	5018
24319	7590	7590 03/10/2005		EXAMINER	
LSI LOGIC			MOHAMEDULLA, SALEHA R		
1621 BARBER LANE MS: D-106				ART UNIT	PAPER NUMBER
MILPITAS,	CA 950	35	1756		

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.   Applicant(s)								
Examiner   Saleha R. Nohamedulla   1756		Application No.						
Saleha R. Mohamedulla 1758  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  If the period for reply specified above is less than thinky 100 days, a reply whith the statistory minimum of thinky 103 days will be considered timely.  If the period for reply specified above is less than the maining date of this communication.  If the period for reply specified above is less than the maining date of this communication of the period of reply is specified above. The maining mainty period will apply said will replet St (5) MONTHS from the maining date of this communication.  If the period for reply specified above is less than the maining date of this communication, and the period of the period of the communication.  If the period for reply specified above is less than the maining date of this communication, and the period of the communication of the period of the communication of the period of the communication, and the period of the communication of the period of the communication of the period of the communication.  Application is FINAL.  2b) This action is FINAL.  2b) This action is provided by the Claim (s) 1-19 is large pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  4b) Claim(s) 1-19 is/are pending in the application.  4c) Claim(s) 1-19 is/are allowed.  Claim(s) 1-19 is/are allowed.  Claim(s) 1-19 is/are objected to by the Examiner.  Diplication Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  10) The drawing(s) filed on is objected to by the Examiner		10/623,344	CROFFIE ET AL.					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Edations of time may be available under the provisions of 37 CPR 1.136(b). In no event, however, may a reply be timely filed ther SN, (6) MCNT155 from the mailing date of this communication.  Failwho to reply within the sation centre of the communication of the provision of the provi	Office Action Summary	Examiner	Art Unit					
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION.  - Editorial of the mary be available under the protections of 37 CFR 1.136(a). In no event, however, may a reply be timely filled decided to the protection of 37 CFR 1.136(a). In no event, however, may a reply be timely filled decided from the protection of 37 CFR 1.136(a). In no event, however, may a reply be timely filled decided from the protection of 37 CFR 1.136(a). In no event, however, may a reply be timely filled decided from the protection of 37 CFR 1.136(a). In no event, however, may a reply be timely filled decided from the protection of 37 CFR 1.136(a). In no event, however, may a reply be timely filled decided from the protection of 37 CFR 1.136(a). If the protection of 37 CFR 1.136(a) is the protection of 38 CFR 1.136(a). If the protection of 38 CFR 1.136(a) is protected above, the maining date of the communication, even if sinely filed, may reduce any secretary and place to temporary filed. The maining date of the communication, even if sinely filed, may reduce any secretary and place to the maining date of the communication, even if sinely filed, may reduce any secretary and place to the maining date of the communication, even if sinely filed, may reduce any secretary and place to the maining date of the communication, even if sinely filed, may reduce any secretary and place to the maining date of the communication, even if sinely filed, may reduce any secretary and the maining date of the communication.  2 (a) Claim (a) [1] (a) (a) (a) (a) (a) (a) (b) (a) (a) (b) (a) (a) (b) (a) (a) (b) (b) (a) (a) (a) (a) (a) (a) (b) (a) (a) (a) (a) (a) (a) (a) (a) (a) (a		Saleha R. Mohamedulla	1756					
THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provision of 37 CPR 1.13(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication of 17 CPR 1.13(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication. It is the period or prely welfain the set or extended period for reply welfain the set of extended peri	•	pears on the cover sheet with the	correspondence address					
1)⊠ Responsive to communication(s) filed on 7/18/03.  2a)☐ This action is FINAL. 2b)⊠ This action is non-final.  3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)☑ Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5)☐ Claim(s) is/are allowed. 6)☑ Claim(s) is/are ejected. 7)☐ Claim(s) is/are objected to. 8)☐ Claim(s) is/are objected to. 8)☐ Claim(s) is/are objected to. 9)☐ The specification is objected to by the Examiner. 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12]☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)☐ All b)☐ Some * ○☐ None of: 1.☐ Certified copies of the priority documents have been received in Application No 3.☐ Copies of the certified copies of the priority documents have been received in Application No 3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  **See the attached detailed Office action for a list of the certified copies not received.  **Attachment(s)**  1 ☐ Interview Summary (PTO-413) Paper Note Mall Date Paper Note Mall Date Paper Note Mall Date Paper Note of Informal Patent Application (PTO-152).	<ul> <li>THE MAILING DATE OF THIS COMMUNICATION.</li> <li>Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If the period for reply specified above is less than thirty (30) days, a replet in NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin</li> </ul>	136(a). In no event, however, may a reply be only within the statutory minimum of thirty (30) do will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	timely filed  ays will be considered timely.  In the mailing date of this communication.  IED (35 U.S.C. § 133).					
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10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1 Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Pager No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)  Pager No(s)/Mail Date	9) The specification is objected to by the Examine	er.						
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### **DETAILED ACTION**

Claims 1-19 are pending.

## Claim Objections

1. Claims 14 and 15 are objected to because of the following informalities: the claims are duplicates. Appropriate correction is required.

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-19 are rejected under 35 U.S.C. 102(e) as being anticipated by US# 6,582,856 to Quek et al.

Quek teaches a binary mask. An opaque layer is provided overlying a transparent substrate. A resist layer is deposited overlying the opaque layer. The resist layer is patterned. The opaque layer and the transparent substrate are etched. The resist layer masks this etching. The opaque layer is etched through during this etching. Notches are thereby etched into the transparent substrate at the edges of the opaque layer. These notches will cause a phase shift in incident light relative to incident light passing through regions in the transparent substrate adjacent to the notches. During this etching, an overetch is performed to remove any mask

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defects in the transparent substrate. Optionally, the notches may be etched into a phase shifting layer overlying the transparent substrate (Abstract). Figure 6 shows sloped etches in the substrate. The sloping enhances phase edge darkening effects. Quek also teaches a phase shift of 180 degrees (col. 5, lines 35-40).

### Conclusion

3. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Saleha Mohamedulla whose telephone number is (571) 272-1387. The Examiner can normally be reached Monday-Friday, from 8:00 AM to 4:30 PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Mark Huff, can be reached on (571) 272-1385. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Saleha R. Mohamedull

Patent Examiner

Technology Center 1700

March 7, 2005